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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/698,122	2 10/31/2003		Qiqing Christine Ouyang	YOR920030327US1	8933	
24299	7590	07/05/2005		EXAMINER		
George Sai			JACKSON JR, JEROME			
145 Fernwood Dr. Greenwich, RI 02818				ART UNIT	PAPER NUMBER	
,				2815	2815	
				DATE MAILED: 07/05/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/698,122	OUYANG ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Jerome Jackson Jr.	2815				
Period fo	The MAILING DATE of this communication apported to the communication apport.	pears on the cover sheet with the c	correspondence address				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status			·				
1)⊠	Responsive to communication(s) filed on 28 A	April 2005.					
		s action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-11,13-25,38 and 39</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-11,13-25,38 and 39</u> is/are rejected.						
· —	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/o	or election requirement.					
Applicat	ion Papers						
9)	The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152.				
Priority (under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document)-(d) or (f).				
	Certified copies of the priority document		on No				
	3. Copies of the certified copies of the prior	• •					
	application from the International Burea	-	·				
* (See the attached detailed Office action for a list		ed.				
		•					
Attachmen	nt(s)						
	ce of References Cited (PTO-892)	4) Interview Summary					
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate Patent Application (PTO-152)				
	er No(s)/Mail Date	6) Other:	(1) (V) (V) (V)				

Application/Control Number: 10/698,122

Art Unit: 2815

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5,7-11,13,14,19,20,23-25,38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ouyang et al 10/00 in view of Wieczorek '894.

Ouyang recites all the recitations of claim 1 but does not teach exactly how to enable precise location of the heterojunction and metallurgical junctions. Wieczorek teaches how to enable such structure by practicing "recess" source/drain regions. Claims 1-5,7-11,13,14,19,20,23-25,38 are prima facie obvious.

Claims 1-5,7-11,13-25,38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ouyang 10/00 with Wieczorek and further in view of Oda '019.

From Oda CMOS implantation would have been obvious for practicing useful circuitry. Claims 15-18,21,22 are obvious structure.

Claims 1-11,13-25,38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ouyang 10/00 with Wieczorek and Oda and further in view of Zhang or Crawford, of record.

Zhang or Creawford suggest 110 crystal orientation for maximum mobility.

Claims 6 and 13 are obvious structure.

Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ouyang 10/00 with Wieczorek and further in view of Yu '951.

Art Unit: 2815

Yu suggests "raised" source/drain regions for minimizing resistance and capacitance. Claim 39 is obvious structure.

As stated previously Zhang or Crawford suggest 100 orientation for maximum mobility.

Applicant's arguments with respect to all the claims have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571 272 1730. The examiner can normally be reached on t-th 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571 272 1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ij

JEROME ACKSON PRIMARY EXAMINER